**YEAR 12 General Mathematics 2**

**Half-Yearly Examination**

**Due Date:** Monday 12th March 2018 Period 3 (Week 7)  
**Assessment Name:** Half-Yearly Examination  
**Mark:** x/55  
**Weighting:** 25%

**SYLLABUS OUTCOMES TO BE ASSESSED:**
MG2H-3 Makes **predictions** about situations based on mathematical models, including those involving cubic, hyperbolic or exponential functions.
MG2H-4 **Analyses** two-dimensional and three-dimensional models to solve practical problems, including those involving spheres and non-right-angled triangles.
MG2H-5 **Interprets** the results of measurements and calculations and makes judgements about reasonableness, including the degree of accuracy of measurements and calculations and the conversion to appropriate units.
MG2H-10 **Uses** mathematical argument and reasoning to evaluate conclusions drawn from other sources, communicating a position clearly to others, and justifies a response.

**Note:** As up to 30% of the assessment mark submitted to the Board of Studies may be based on the Preliminary Mathematics General course, any preliminary outcomes can be assessed.


**DIRECTIVES TO BE ASSESSED:**
- **Analyse:** Identify components and the relationship between them; draw out and relate implications.
- **Interpret:** Draw meaning from.
- **Predict:** Suggest what may happen based on available information.
- **Use/s:** Apply, utilise, employ in a particular situation.

**TASK DESCRIPTION:**
You will complete an examination, covering all coursework studied in the General 2 Mathematics course so far, this could include preliminary content. The examination will involve multiple-choice questions and extended response questions. A board approved formulae sheet will be provided with your examination paper.

The **multiple-choice questions are worth 15 marks in total. The topics assessed are:**
- Applications of Area and Volume
- Trigonometry
- Mathematics and Resources
- Algebraic Techniques

The **extended response questions are worth 40 marks in total. The topics assessed are:**
- Application of Area and Volume
- Trigonometry
- Mathematics and Resources
- Algebraic Techniques

**Recommended equipment:**
- Board approved scientific calculator
- Pens, ruler, pencils

**ASSESSMENT CRITERIA – STUDENT CHECKLIST:**
Have you:
- Revised the following topics, ensuring you have referenced syllabus documents:
  - Preliminary content
  - Further Applications of Area and Volume (Chapter 2)
  - Applications of Trigonometry (Chapter 5)
  - Mathematics and Resources (Chapter 14)
  - Further Algebraic Skills and Techniques (Chapter 3)
- Attended Maths help on Fridays if needed